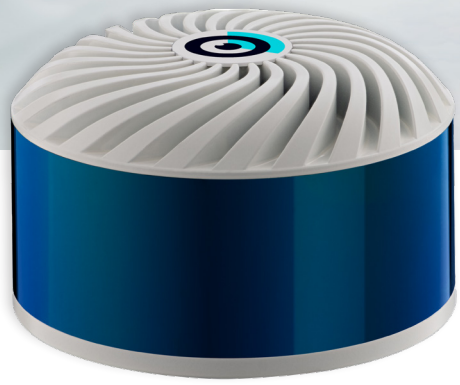
INNOVIZ™
TECHNOLOGIES

PRELIMINARY



# INNOVIZ360

## The New Standard for 360° LiDAR Performance

**SAMPLES AVAILABLE Q1, 2023**

Innoviz360 sets a new standard for a high-performance 360° LiDAR for automotive and non-automotive applications. It features a revolutionary 360° scanning design with a pre-configured maximum 64° vertical FOV and ROI location. Its 300m detection range is ideal for autonomous vehicles, shuttles and non-automotive applications, including heavy machinery, smart cities, logistics, construction, and maritime.

Innoviz360 supports pre-configured functionality including FOV scanning configuration with Region of Interest (ROI), pixel summation, frame rate, and up to three reflections.

### KEY PERFORMANCE METRICS

| | | | |
|---|---|---|---|
| 0.3m-300m | 0.05°x0.05° | 360°x64° | 0.5-25FPS |
| Detection Range | Maximum Angular Resolution (HxV) | Maximum Field of View (HxV) | Pre-Configured Frame Rate |
| 300-1280 | IP6K6K, IP6K9K, IP6K7 | 115x65mm | -40°C to 85°C |
| Scanning Lines per Frame | Ingress Protection | (Diameter x Height) | Operating Temperature |

### UNIQUE FEATURES

- Enhanced resolution and range
- FOV with configurable ROI location
- Up to 3 reflections
- Resilient to sunlight & weather conditions
- Pixel summation for extended range
- Ethernet/Automotive Ethernet interface

### MARKET APPLICATIONS

Autonomous Vehicles

Robotaxis and Shuttles

Trucking

Heavy Machinery

Smart Cities

Logistics

Construction

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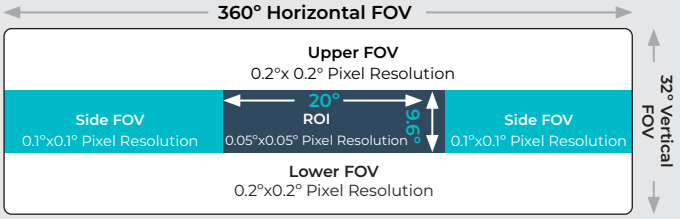
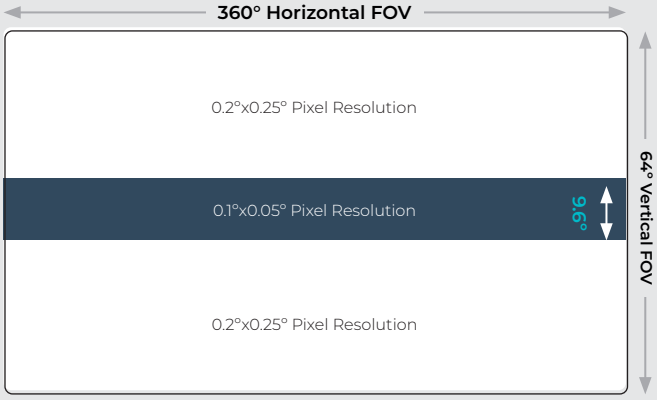
## SCANNING CONFIGURATION EXAMPLES[1]

### AUTONOMOUS VEHICLES




### SHUTTLES AND AGVs




### NOTES

[1] 10 FPS, Configurable ROI Location

## SPECIFICATIONS

### INTERFACES

| | |
|---|---|
| Data, Command and Control | Ethernet (1000BASE-T)/Automotive Ethernet (1000BASE-T1) |
| Time Synchronization | PTP over Ethernet (1588V2/802.1AS) |

### LASER

| | |
|---|---|
| Laser Product Class | Class 1, Eye-safe (IEC-60825-1) |
| Wavelength | 905nm |

### OUTPUTS

| | |
|---|---|
| Point Cloud Attributes | Per reflection: Distance, reflectivity, and confidence<br>Per-pixel: Timestamp, number of reflections, blockage indication, and coordinates of pixel<br>Per frame: Window blockage detection, frame sequence number |
| Point Cloud Reflections | Up to 3 |
| Pixel Latency[1] | <10msec |
| Time Stamp | 10 µsec accuracy for every pixel |

### NOTES

[1] From first laser pulse of the pixel until pixel data is sent over the data interface.

### MECHANICAL/ELECTRICAL

| | | |
|---|---|---|
| Power Consumption | | 25W (typical) |
| Operating Voltage | | 6.5 to 32VDC |
| Dimensions | | 115x65mm (Diameter x Height) |
| Weight | | ~1kg |
| Temperature | Operating | -40°C to 85°C |
| | Storage | -40°C to 105°C |
| Lifetime | | 15 years or 300,000km |

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